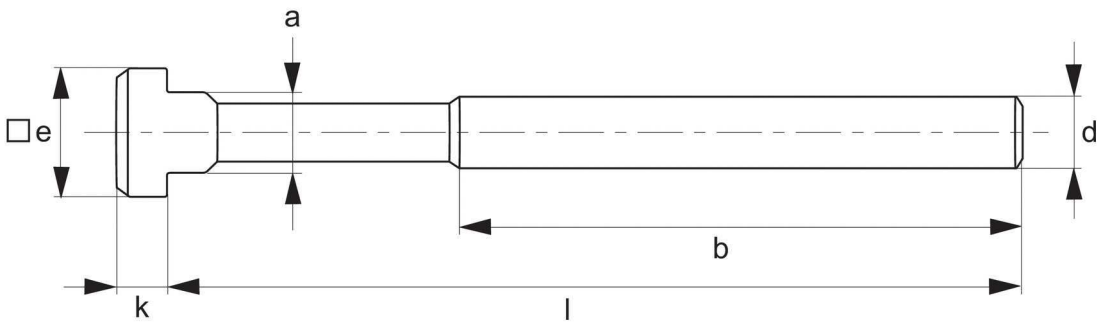
T-Slot Bolts

strength class 8,8/10,9 - DIN 787

2100



Order No.	d x slot x l	b	a	□e	k	g
2100.W061	M 6x6x25	15	5,7	10	4	9
2100.W062	M 6x6x40	28	5,7	10	4	12
2100.W063	M 6x6x63	40	5,7	10	4	18
2100.W081	M 8x8x32	22	7,7	13	6	20
2100.W082	M 8x8x50	35	7,7	13	6	25
2100.W083	M 8x8x80	50	7,7	13	6	30
2100.W101	M10x10x40	30	9,7	15	6	30
2100.W102	M10x10x63	45	9,7	15	6	50
2100.W104	M10x10x80	50	9,7	15	6	60
2100.W103	M10x10x100	60	9,7	15	6	70
2100.W121	M12x12x50	33	11,7	18	7	60
2100.W122	M12x12x63	40	11,7	18	7	65
2100.W123	M12x12x80	55	11,7	18	7	75
2100.W126	M12x12x100	65	11,7	18	7	90
2100.W124	M12x12x125	75	11,7	18	7	110
2100.W127	M12x12x160	100	11,7	18	7	135
2100.W125	M12x12x200	120	11,7	18	7	160
2100.W141	M12x14x50	33	13,7	22	8	70
2100.W142	M12x14x63	45	13,7	22	8	80
2100.W143	M12x14x80	55	13,7	22	8	100
2100.W146	M12x14x100	65	13,7	22	8	110
2100.W144	M12x14x125	75	13,7	22	8	120
2100.W147	M12x14x160	100	13,7	22	8	150
2100.W145	M12x14x200	120	13,7	22	8	180
2100.W161	M14x16x63	45	15,7	25	9	115
2100.W159	M14x16x80	55	15,7	25	9	130
2100.W162	M14x16x100	65	15,7	25	9	150
2100.W160	M14x16x125	75	15,7	25	9	180
2100.W163	M14x16x160	100	15,7	25	9	220
2100.W164	M14x16x250	150	15,7	25	9	300
2100.W165	M16x16x63	45	15,7	25	9	140
2100.W166	M16x16x80	55	15,7	25	9	160
2100.W167	M16x16x100	65	15,7	25	9	180
2100.W171	M16x16x125	85	15,7	25	9	225
2100.W168	M16x16x160	100	15,7	25	9	270
2100.W169	M16x16x200	125	15,7	25	9	315
2100.W170	M16x16x250	150	15,7	25	9	380
2100.W181	M16x18x63	45	17,7	28	10	160
2100.W182	M16x18x80	55	17,7	28	10	185
2100.W183	M16x18x100	65	17,7	28	10	203
2100.W187	M16x18x125	85	17,7	28	10	245
2100.W184	M16x18x160	100	17,7	28	10	280
2100.W185	M16x18x200	125	17,7	28	10	330
2100.W186	M16x18x250	150	17,7	28	10	430
2100.W201	M20x20x80	55	19,7	32	12	290
2100.W202	M20x20x100	65	19,7	32	12	340
2100.W203	M20x20x125	85	19,7	32	12	390
2100.W204	M20x20x160	110	19,7	32	12	470
2100.W205	M20x20x200	125	19,7	32	12	550
2100.W206	M20x20x250	150	19,7	32	12	670
2100.W207	M20x20x315	190	19,7	32	12	800
2100.W221	M20x22x80	55	21,7	35	14	330
2100.W222	M20x22x100	65	21,7	35	14	370
2100.W223	M20x22x125	85	21,7	35	14	428
2100.W224	M20x22x160	110	21,7	35	14	500
2100.W225	M20x22x200	125	21,7	35	14	570
2100.W226	M20x22x250	150	21,7	35	14	680
2100.W227	M20x22x315	190	21,7	35	14	820

Material
Heat-treated steel, black, forged, T-slot flats milled

Technical Notes
Sizes M 6-M12 strength class 10.9.
Sizes M14-M42 strength class 8.8.
Please see Appendix 5 for technical details.

Tips
The T-nut element of all T-slot bolts are square, the dimension of which is represented by the symbo□e.

Referral
Please refer to nos. 2430, 2440 and 2500 for suitable fixture nuts and washers.

T-Slot Bolts

strength class 8,8/10,9 - DIN 787

2100

Order No.	d x slot x l	b	a	□e	k	g
2100.W241	M24x24x100	70	23,7	40	16	540
2100.W242	M24x24x125	85	23,7	40	16	600
2100.W243	M24x24x160	110	23,7	40	16	770
2100.W244	M24x24x200	125	23,7	40	16	900
2100.W245	M24x24x250	150	23,7	40	16	960
2100.W246	M24x24x315	190	23,7	40	16	1270
2100.W247	M24x24x400	240	23,7	40	16	1410
2100.W281	M24x28x100	70	27,7	44	18	650
2100.W282	M24x28x125	85	27,7	44	18	720
2100.W283	M24x28x160	110	27,7	44	18	800
2100.W284	M24x28x200	125	27,7	44	18	950
2100.W285	M24x28x250	150	27,7	44	18	1120
2100.W286	M24x28x315	190	27,7	44	18	1350
2100.W287	M24x28x400	240	27,7	44	18	1490
2100.W288	M24x28x400	100	31,6	50	20	1168
2100.W289	M24x28x400	135	31,6	50	20	1245
2100.W290	M24x28x400	200	31.6	50	20	1828
2100.W361	M30x36x125	80	35,6	54	22	1250
2100.W362	M30x36x160	110	35,6	54	22	1440
2100.W363	M30x36x200	135	35,6	54	22	1630
2100.W364	M30x36x250	150	35,6	54	22	1920
2100.W365	M30x36x315	200	35,6	54	22	2100
2100.W366	M30x36x500	300	35,6	54	22	3300
2100.W421	M36x42x160	100	41,6	65	26	2200
2100.W422	M36x42x250	175	41,6	65	26	2820
2100.W423	M36x42x400	250	41,6	65	26	3930
2100.W424	M36x42x600	340	41,6	65	26	5480
2100.W481	M42x48x160	100	47,6	75	30	3400
2100.W482	M42x48x250	175	47,6	75	30	4300
2100.W483	M42x48x400	250	47,6	75	30	5800

Material
Heat-treated steel, black, forged, T-slot flats milled

Technical Notes
Sizes M 6-M12 strength class 10.9. Sizes M14-M42 strength class 8.8. Please see Appendix 5 for technical details.

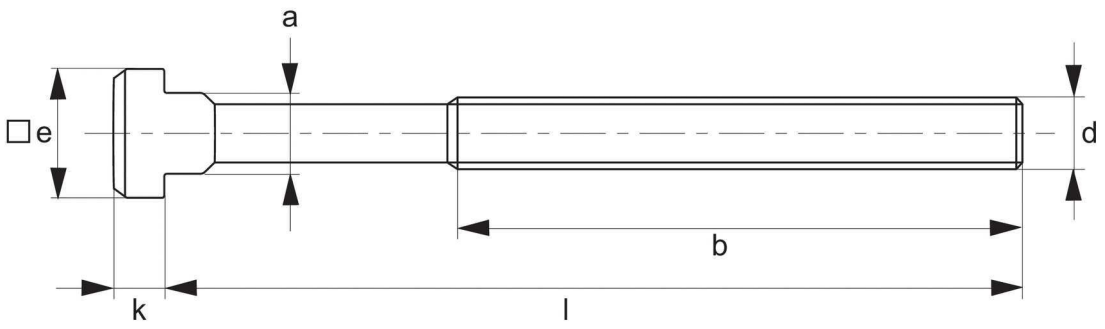
Tips
The T-nut element of all T-slot bolts are square, the dimension of which is represented by the symbo□e.

Referral
Please refer to nos. 2430, 2440 and 2500 for suitable fixture nuts and washers.

T-Slot Bolts

extra strength, class 12,9 - DIN 787

2105



Order No.	d x slot x l	a	b	□e	k	g
2105.W101	M10x10x40	9,7	30	15	6	30
2105.W102	M10x10x50	9,7	35	15	6	40
2105.W103	M10x10x80	9,7	50	15	6	60
2105.W104	M10x10x100	9,7	60	15	6	70
2105.W121	M12x12x50	11,7	35	18	7	60
2105.W126	M12x12x63	11,7	40	18	7	65
2105.W122	M12x12x80	11,7	55	18	7	75
2105.W127	M12x12x100	11,7	65	18	7	90
2105.W123	M12x12x125	11,7	75	18	7	110
2105.W128	M12x14x160	11,7	100	18	7	135
2105.W124	M12x12x200	11,7	120	18	7	160
2105.W141	M12x14x50	13,7	35	22	8	70
2105.W146	M12x14x63	13,7	45	22	8	80
2105.W142	M12x14x80	13,7	55	22	8	100
2105.W147	M12x14x100	13,7	65	22	8	110
2105.W143	M12x14x125	13,7	75	22	8	120
2105.W148	M12x14x160	13,7	100	22	8	150
2105.W144	M12x14x200	13,7	120	22	8	180
2105.W161	M16x16x63	15,7	45	25	9	140
2105.W165	M16x16x80	15,7	55	25	9	160
2105.W162	M16x16x100	15,7	65	25	9	180
2105.W166	M16x16x125	15,7	85	25	9	225
2105.W163	M16x16x160	15,7	100	25	9	270
2105.W167	M16x16x200	15,7	125	25	9	315
2105.W164	M16x16x250	15,7	150	25	9	380
2105.W181	M16x18x63	17,7	45	28	10	160
2105.W186	M16x18x80	17,7	55	28	10	185
2105.W182	M16x18x100	17,7	65	28	10	203
2105.W187	M16x18x125	17,7	85	28	10	230
2105.W183	M16x18x160	17,7	100	28	10	280
2105.W188	M16x18x200	17,7	125	28	10	330
2105.W184	M16x18x250	17,7	150	28	10	430
2105.W201	M20x20x80	19,7	55	32	12	290
2105.W202	M20x20x125	19,7	85	32	12	390
2105.W205	M20x20x160	19,7	110	32	12	470
2105.W203	M20x20x200	19,7	125	32	12	550
2105.W206	M20x20x250	19,7	150	32	12	670
2105.W204	M20x20x315	19,7	190	32	12	800
2105.W221	M20x22x80	21,7	55	35	14	330
2105.W222	M20x22x125	21,7	85	35	14	428
2105.W225	M20x22x160	21,7	110	35	14	500
2105.W223	M20x22x200	21,7	125	35	14	570
2105.W226	M20x22x250	21,7	150	35	14	680
2105.W224	M20x22x315	21,7	190	35	14	820
2105.W241	M24x24x100	23,7	70	40	16	540
2105.W242	M24x24x160	23,7	110	40	16	770
2105.W245	M24x24x200	23,7	125	40	16	900
2105.W243	M24x24x250	23,7	150	40	16	960
2105.W244	M24x24x400	23,7	240	40	16	1410
2105.W281	M24x28x100	27,7	70	44	18	650
2105.W282	M24x28x160	27,7	110	44	18	800
2105.W285	M24x28x200	27,7	125	44	18	950
2105.W283	M24x28x250	27,7	150	44	18	1120
2105.W284	M24x28x400	27,7	240	44	18	1490
2105.W285	M30x36x160	35,6	110	54	21	1950
2105.W286	M30x36x200	35,6	135	54	22	2230
2105.W287	M30x36x250	35,6	150	54	22	2555
2105.W288	M30x36x315	35,6	200	54	22	2950

Material

Forged steel, rolled threads. T-slot guide faces milled.
Strength class 12.9 punched into head.

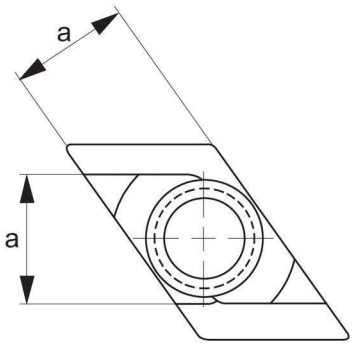
Tips

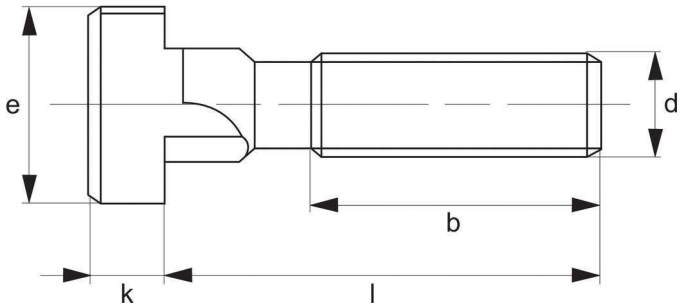
For use where higher clamping forces are required. The T-nut element of all T-slot bolts are square, the dimension of which is represented by the symbo□e.

Rhombus T-Slot Bolt

strength class 8,8

2106





Order No.	d x slot x l	a	b	e	k	g
2106.W141	M12x14x50	13,7	35	22	8	70
2106.W142	M12x14x80	13,7	55	22	8	100
2106.W143	M12x14x125	13,7	75	22	8	120
2106.W181	M16x18x63	17,7	45	28	10	160
2106.W182	M16x18x100	17,7	65	28	10	220
2106.W183	M16x18x160	17,7	100	28	10	280
2106.W221	M20x22x80	21,7	55	35	14	330
2106.W223	M20x22x125	21,7	85	35	14	430
2106.W225	M20x22x200	21,7	120	35	14	570
2106.W281	M24x28x100	27,7	70	44	18	650
2106.W282	M24x28x125	27,7	85	44	18	770
2106.W285	M24x28x250	27,7	150	44	18	1120

Material

Forged steel, rolled thread, heat-treated.

Technical Notes

Tensile strength 8,8. Please see Appendix 5 for technical details.

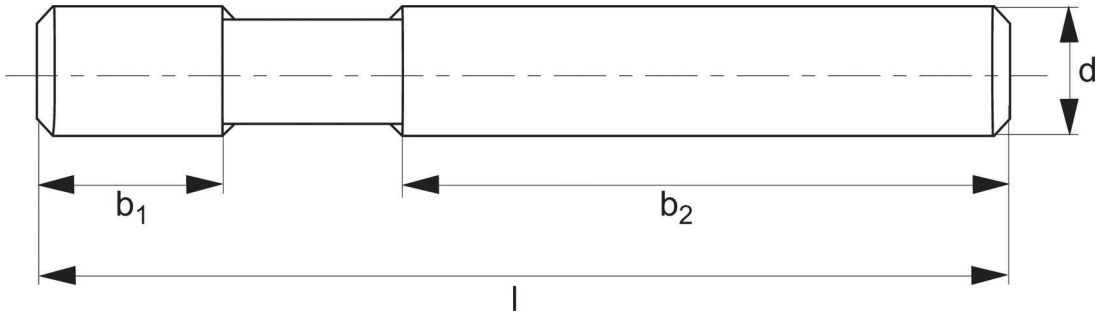
Tips

This unique T-slot bolt combines the integral strength of a one piece t-bolt, with the functionality of a rhombus type nut to provide access to t-slots where workpiece layout prohibits the introduction of standard T-slot bolts no. 2100.

Studs

strength class 8,8/10,9 - DIN 6379

2110



Order No.	d x l	b_1	b_2	g
2110.W061	M6x32	9	16	8
2110.W062	M6x40	9	20	9
2110.W063	M6x50	9	30	11
2110.W064	M6x63	9	40	14
2110.W065	M6x80	9	50	18
2110.W081	M8x40	11	20	10
2110.W082	M8x63	11	40	20
2110.W083	M8x80	11	50	25
2110.W084	M8x100	11	63	30
2110.W085	M8x160	11	100	45
2110.W086	M8x125	11	75	36
2110.W101	M10x50	13	25	25
2110.W102	M10x80	13	50	40
2110.W103	M10x100	13	75	50
2110.W104	M10x125	13	75	62
2110.W105	M10x160	13	100	80
2110.W106	M10x200	13	125	100
2110.W121	M12x50	15	25	37
2110.W122	M12x63	15	32	45
2110.W123	M12x80	15	50	55
2110.W124	M12x100	15	63	70
2110.W125	M12x125	15	75	90
2110.W126	M12x160	15	100	113
2110.W127	M12x200	15	125	140
2110.W141	M14x63	17	32	80
2110.W142	M14x100	17	63	90
2110.W143	M14x160	17	100	150
2110.W144	M14x200	17	125	195
2110.W145	M14x250	17	160	240
2110.W146	M14x80	17	50	85
2110.W147	M14x125	17	75	120
2110.W161	M16x63	19	32	85
2110.W162	M16x80	19	50	105
2110.W163	M16x100	19	63	130
2110.W164	M16x125	19	75	160
2110.W165	M16x160	19	100	218
2110.W166	M16x200	19	125	280
2110.W167	M16x250	19	160	325
2110.W168	M16x315	19	180	425
2110.W169	M16x500	19	315	650
2110.W181	M18x80	23	50	130
2110.W182	M18x125	23	75	200
2110.W183	M18x160	23	100	255
2110.W184	M18x200	23	125	320
2110.W185	M18x250	23	150	400
2110.W186	M18x315	23	180	500
2110.W201	M20x80	27	32	185
2110.W202	M20x125	27	70	255
2110.W203	M20x160	27	100	330
2110.W204	M20x200	27	125	410
2110.W205	M20x250	27	160	510
2110.W206	M20x315	27	200	640
2110.W207	M20x400	27	250	815
2110.W208	M20x500	27	315	1020
2110.W221	M22x100	31	45	270
2110.W222	M22x160	31	100	430
2110.W223	M22x200	31	125	500
2110.W224	M22x250	31	160	670

Material
Forged steel, rolled thread, heat-treated.

Technical Notes
M 6-M12 - tensile strength class 10,9.
M14-M42 tensile strength class 8,8.

Tips
Please refer to nos. 2400, 2430, 2440 and 2500 for appropriate T-nuts, fixture nuts, collar nuts and washers.

Studs

strength class 8,8/10,9 - DIN 6379

Order No.	d x l	b_1	b_2	g
2110.W225	M22x315	31	180	790
2110.W226	M22x400	31	250	1070
2110.W241	M24x100	35	45	290
2110.W242	M24x125	35	70	380
2110.W243	M24x160	35	100	470
2110.W244	M24x200	35	125	580
2110.W245	M24x250	35	160	730
2110.W246	M24x315	35	200	920
2110.W247	M24x400	35	250	1160
2110.W248	M24x500	35	315	1460
2110.W249	M24x630	35	315	1850
2110.W271	M27x125	39	56	485
2110.W272	M27x200	39	125	770
2110.W273	M27x315	39	200	1110
2110.W274	M27x400	39	250	1535
2110.W275	M27x500	39	315	1930
2110.W301	M30x125	43	56	590
2110.W302	M30x200	43	125	950
2110.W303	M30x315	43	200	1490
2110.W304	M30x500	43	315	2360
2110.W305	M30x700	43	400	3300
2110.W306	M30x1000	43	400	4700
2110.W361	M36x160	51	80	1100
2110.W362	M36x200	51	125	1340
2110.W363	M36x250	51	160	1710
2110.W364	M36x315	51	200	2150
2110.W365	M36x400	51	250	2700
2110.W366	M36x500	51	315	3540
2110.W367	M36x700	51	400	4750
2110.W421	M42x315	59	200	2950
2110.W422	M42x400	59	250	3750
2110.W423	M42x500	59	315	4690

Material
Forged steel, rolled thread, heat-treated.

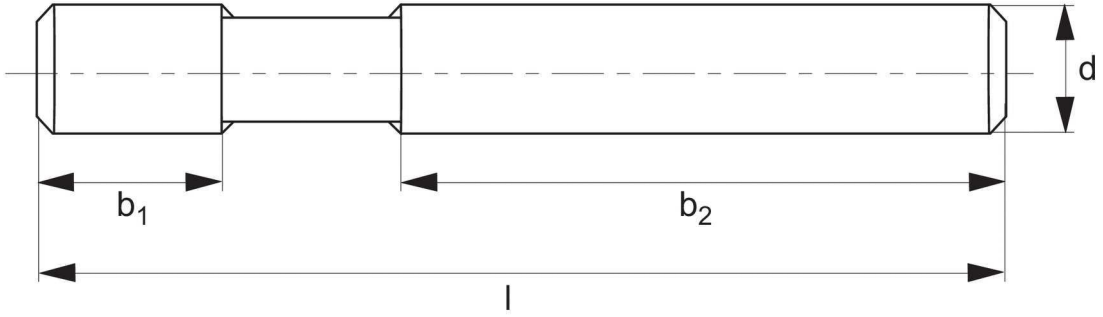
Technical Notes
M 6-M12 - tensile strength class 10,9.
M14-M42 tensile strength class 8,8.

Tips
Please refer to nos. 2400, 2430, 2440 and 2500 for appropriate T-nuts, fixture nuts, collar nuts and washers.

Studs

Strength class 12.9 - DIN 6379

2112



Order No.	d x l	b_1	b_2	g
2112.W123	M12x80	15	50	55
2112.W124	M12x100	15	63	70
2112.W125	M12x125	15	75	90
2112.W126	M12x160	15	100	113
2112.W162	M16 x 80	19	50	105
2112.W163	M16x100	19	63	130
2112.W164	M16x125	19	75	160
2112.W165	M16x160	19	100	218
2112.W166	M16x200	19	125	280
2112.W167	M16x250	19	160	325
2112.W202	M20x125	27	70	255
2112.W203	M20x160	27	100	330
2112.W204	M20x200	27	125	410
2112.W205	M20x250	27	160	510
2112.W206	M20x315	27	200	640
2112.W208	M20x500	27	315	1020
2112.W243	M24x160	35	100	470
2112.W244	M24x200	35	125	580
2112.W245	M24x250	35	160	730
2112.W246	M24x315	35	200	920
2112.W247	M24x400	35	250	1160
2112.W248	M24x500	35	315	1460

Material

Forged steel, rolled thread, heat treated to tensile strength 12.9.

Technical Notes

For studs of tensile strength 8.8 and 10.9 please refer to part No. 2110.

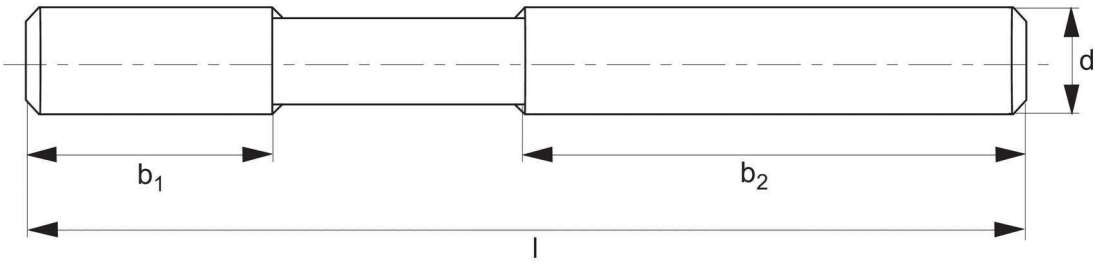
Tips

Please refer to Nos. 2400, 2430, 2440 and 2500 for appropriate T-nuts, fixture nuts, collar nuts and washers.

Studs

strength class 8,8 - b1 longer than DIN 6379 version

2115



Material
Heat treated steel, blackened.

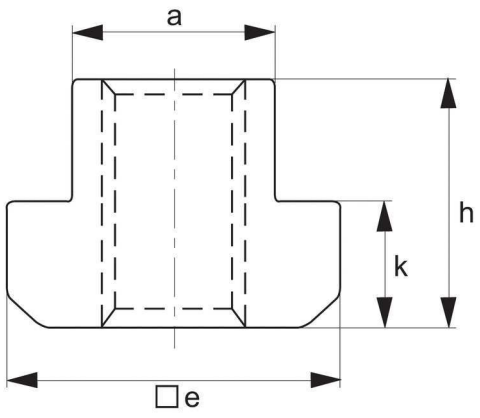
Technical Notes
b_1 longer than DIN 6379 version, part no. 2110.
Longer thread length provides added security.
Items marked * have full length threaded (hence b_1 and b_2 no longer valid).

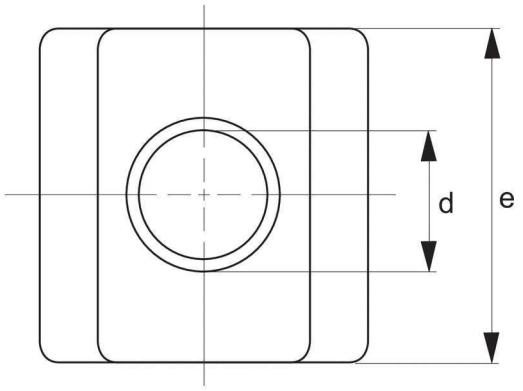
Order No.	d x l	b_1	b_2	g
2115.W562	M 6 x 50	15	30	8
2115.W563	M 6 x 63	15	40	11
2115.W564	M 6 x 80	15	50	14
2115.W582	M 8 x 63	20	40	19
2115.W583	M 8 x 100	20	63	31
2115.W584	M 8 x 160	20	100	49
2115.W602	M10 x 80	25	50	39
2115.W603	M10 x 100	25	75	49
2115.W604	M10 x 125	25	75	61
2115.W605	M10 x 160	25	100	78
2115.W606	M10 x 200	25	125	98
2115.W622	M12 x 63*	-	-	44
2115.W623	M12 x 80*	-	-	56
2115.W624	M12 x 100	30	63	70
2115.W625	M12 x 125	30	75	88
2115.W626	M12 x 160	30	100	112
2115.W627	M12 x 200	30	125	140
2115.W662	M16 x 80*	-	-	103
2115.W664	M16 x 125	40	63	161
2115.W665	M16 x 160	40	75	207
2115.W666	M16 x 200	40	100	260
2115.W667	M16 x 250	40	125	325

T-Nuts

strength class 10 - DIN 508

2400





Material
Heat-treated steel, to tensile strength class 10.

Technical Notes
( ) = old standard.
Further T-nut sizes and qualities on request.
Please note T-nuts are square, length and width are both equal to dimension □e.

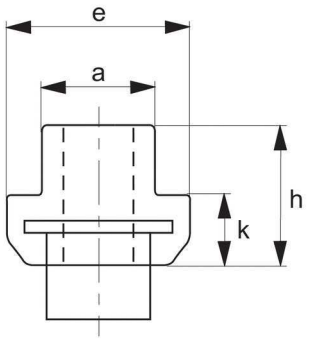
Important Notes
Full load capacity of T-nut can only be achieved if 100% of T-nut's thread is in use.

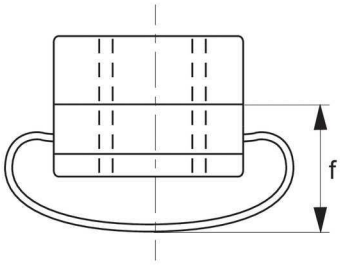
Order No.	d x slot	a	□e	h	k	Testing force to DIN 508 F min N x 10³	g
2400.W041	M 4x5	4,6	9	6,5	3	7,0	2,3
2400.W200	(M12x20)	19,6	32	24,0	12	67,0	107
2400.W201	(M16x20)	19,7	32	24,0	12	128,0	110
2400.W220	(M12x22)	21,6	35	28,0	14	67,0	155
2400.W181	(M 8x18)	17,7	28	20,0	10	29,0	91
2400.W182	(M10x18)	17,7	28	20,0	10	46,0	87
2400.W183	(M12x18)	17,7	28	20,0	10	67,0	82
2400.W161	(M 8x16)	15,7	25	18,0	9	29,0	50
2400.W162	(M10x16)	15,7	25	18,0	9	46,0	50
2400.W141	(M 8x14)	13,7	22	16,0	8	29,0	35
2400.W061	M 5x6	5,7	10	8,0	4	11,4	3,4
2400.W081	M 6x8	7,7	13	10,0	6	16,0	8,3
2400.W091	M 6x10	9,6	15	12,0	6	16,0	14
2400.W101	M 8x10	9,7	15	12,0	6	29,0	13
2400.W121	M 8x12	11,7	18	14,0	7	29,0	23
2400.W122	M10x12	11,7	18	14,0	7	46,0	20
2400.W142	M10x14	13,7	22	16,0	8	46,0	37
2400.W143	M12x14	13,7	22	16,0	8	67,0	34
2400.W163	M12x16	15,7	25	18,0	9	67,0	54
2400.W164	M14x16	15,7	25	18,0	9	-	49
2400.W184	M14x18	17,7	28	20,0	10	-	74
2400.W185	M16x18	17,7	28	20,0	10	128,0	68
2400.W202	M18x20	19,7	32	24,0	12	-	108
2400.W221	M16x22	21,7	35	28,0	14	128,0	176
2400.W222	M18x22	21,7	35	28,0	14	-	163
2400.W223	M20x22	21,7	35	28,0	14	196,0	155
2400.W241	M16x24	23,7	40	32,0	16	128,0	260
2400.W242	M20x24	23,7	40	32,0	16	196,0	235
2400.W243	M22x24	23,7	40	32,0	16	-	220
2400.W281	M16x28	27,7	44	36,0	18	128,0	383
2400.W282	M20x28	27,7	44	36,0	18	196,0	355
2400.W283	M22x28	27,7	44	36,0	18	-	340
2400.W284	M24x28	27,7	44	36,0	18	282,0	322
2400.W301	M24x30	29,7	48	38,0	19	-	440
2400.W321	M27x32	31,6	50	40,0	20	-	460
2400.W361	M24x36	35,6	54	44,0	22	282,0	700
2400.W362	M30x36	35,6	54	44,0	22	448,0	590
2400.W421	M30x42	41,6	65	52,0	26	-	1150
2400.W422	M36x42	41,6	65	52,0	26	653,0	1010
2400.W481	M42x48	47,6	75	60,0	30	653,0	1600
2400.W541	M48x54	53,6	85	70,0	34	653,0	2300

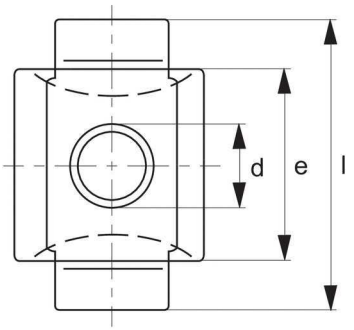
T-Nuts

with anti-slip device

2401







Material
Heat-treated steel, quality 10, black. Spring element: stainless steel.

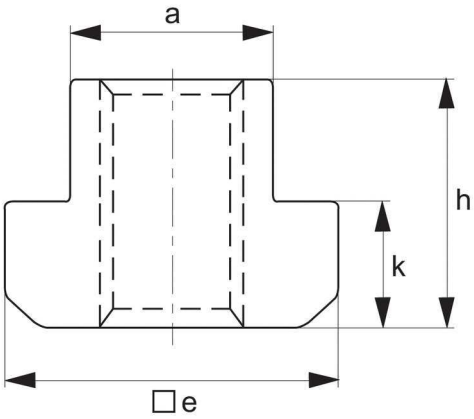
Technical Notes
The spring element prevents horizontal and vertical slipping of T Nut. Please note T-nuts are square, length and width are both equal to dimension "e".

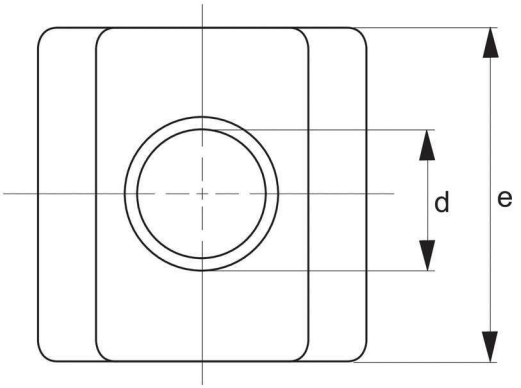
Order No.	d x slot	a	e	f	h	k	l	g
2401.W060	M 5x6	5,7	10	8	4	20		8
2401.W080	M 6x8	7,7	13	10	6	26		14
2401.W100	M 8x10	9,7	15	12	6	30		30
2401.W120	M10x12	11,7	18	14	7	36		49
2401.W140	M12x14	13,7	22	16	8	44		82
2401.W160	M14x16	15,7	25	18	9	50		120
2401.W180	M16x18	17,7	28	20	10	56		170
2401.W200	M18x20	19,7	32	24	12	64		260
2401.W220	M20x22	21,7	35	28	14	70		360
2401.W280	M24x28	27,7	44	36	18	88		730
2401.W360	M30x36	35,6	54	44	22	108		1390

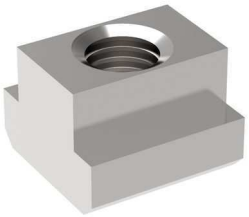
T-Nuts

stainless steel - DIN 508

2402







Material
Stainless steel 1.4305 (AISI 303)

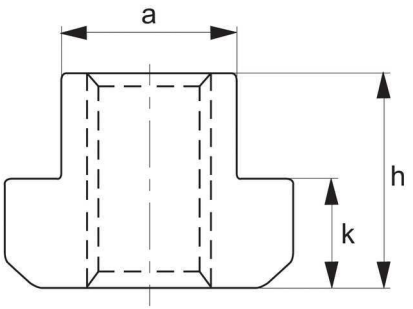
Technical Notes
Please note T-nuts are square, length and width are both equal to dimension "e".

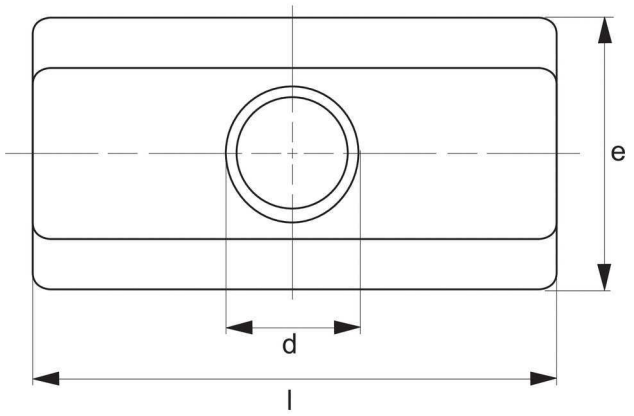
Order No.	d	T-slot size	a	e	h	k	g
2402.W041	M 4	5	4,6	9	10	3	2,3
2402.W061	M 5	6	5,6	10	8	4	3,4
2402.W081	M 6	8	7,6	13	10	6	8,3
2402.W101	M 8	10	9,6	15	12	6	13
2402.W111	M 8	12	11,6	18	14	7	23
2402.W121	M10	12	11,6	18	14	7	20
2402.W131	M10	14	13,6	22	16	8	37
2402.W141	M12	14	13,6	22	16	8	34
2402.W151	M12	16	135,6	25	18	9	54
2402.W161	M14	16	15,6	25	18	9	49
2402.W171	M14	18	17,6	28	20	10	74
2402.W181	M16	18	17,6	28	20	10	68
2402.W191	M16	20	19,6	32	24	12	116
24020.W1101	M18	20	19,6	32	24	12	108
24020.W1111	M18	22	21,6	35	28	14	163
24020.W1121	M20	22	21,6	35	28	14	149
24020.W1131	M20	24	23,6	40	32	16	237
24020.W1141	M22	24	23,6	40	32	16	221
24020.W1151	M24	28	27,6	44	36	18	330

Extended T-Nuts

strength class 10

2410





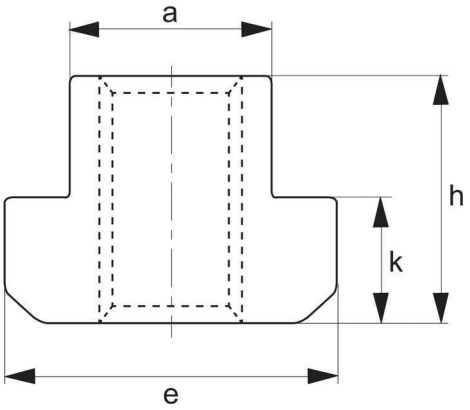
Material
Heat treated to tensile strength class 10.

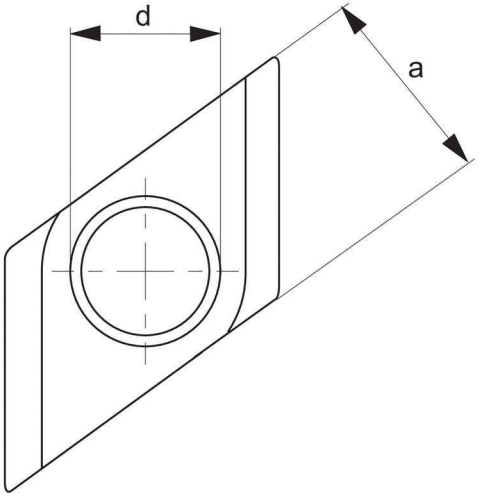
Technical Notes
The extended length of the T-nut protects T-slots from damage.

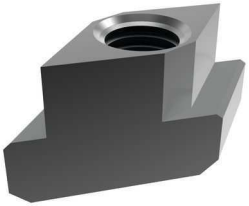
Order No.	d x slot	a	e	h	k	l	g
2410.W060	M 5x6	5,7	10	8	4	20	8
2410.W080	M 6x8	7,7	13	10	6	26	14
2410.W100	M 8x10	9,7	15	12	6	30	30
2410.W120	M10x12	11,7	18	14	7	36	49
2410.W140	M12x14	13,7	22	16	8	44	82
2410.W160	M14x16	15,7	25	18	9	50	120
2410.W180	M16x18	17,7	28	20	10	56	170
2410.W200	M18x20	19,7	32	24	12	64	260
2410.W220	M20x22	21,7	35	28	14	70	360
2410.W280	M24x28	27,7	44	36	18	88	730
2410.W360	M30x36	35,6	54	44	22	108	1390

Rhombus T-Nuts

2412







Material
Heat-treated steel.

Technical Notes
Can be fitted into slots from above.

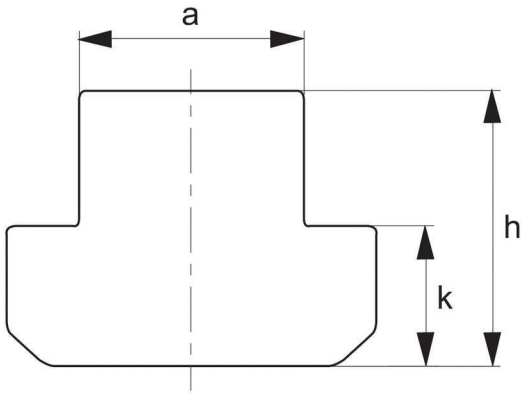
Tips
Very useful on long T-slots or where workpiece layout prohibits the introduction of bolts or nuts from the end.
Keep slots clean to ensure accurate fit.

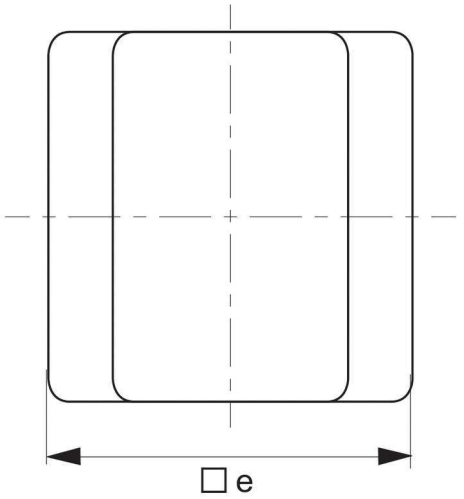
Order No.	d x slot	Strength class	a	e	h	k	g
2412.W060	M 5x6	10	5,7	10	8	4	2,1
2412.W080	M 6x8	10	7,6	13	10	6	5,4
2412.W100	M 8x10	10	9,6	15	12	6	8,8
2412.W120	M10x12	8	11,7	18	14	7	14
2412.W140	M10x14	8	13,7	22	16	8	23
2412.W160	M14x16	6	15,7	25	18	9	33
2412.W181	M16x18	6	17,7	28	20	10	46
2412.W201	M18x20	6	19,7	32	24	12	69
2412.W221	M20x22	6	21,7	35	28	14	98
2412.W281	M24x28	6	27,7	44	36	18	213
2412.W360	M30x36	6	35,6	54	44	22	423
2412.W420	M36x42	6	41,6	65	52	26	676

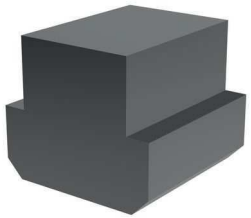
Semi Finished T-Nuts

strength class 10 - DIN 508

2416







Material
Carbon steel 0,35 - 0,45%C.

Technical Notes
After machining thread, heat treat to tensile strength class 10. Heat to 880°C for 45 minutes, quench in oil at 75°C and temper at 550°C for two hours.
Please note T-nuts are square, length and width are both equal to dimension □e.

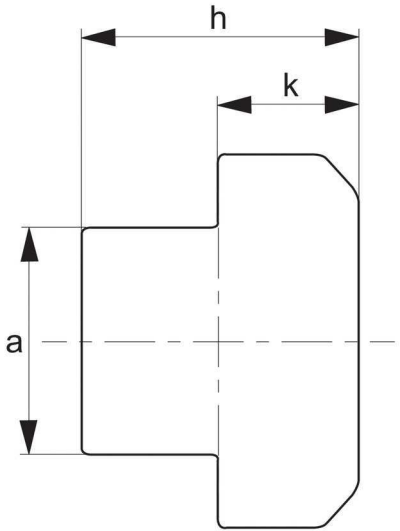
Tips
Useful for machining unusual thread sizes or imperial threads.

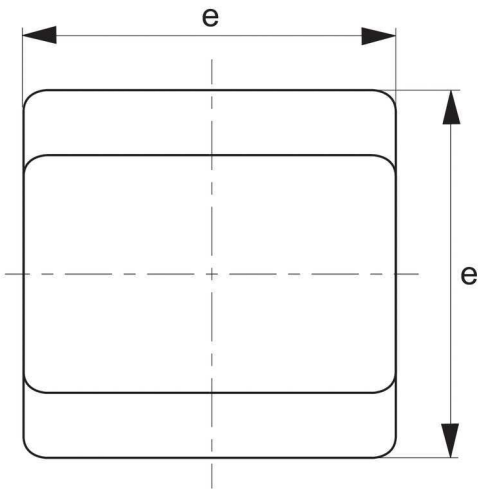
Order No.	Slot	a	□e	h	k	g
2416.W060	6	5,7	10	8	4	4
2416.W080	8	7,7	13	10	6	10
2416.W100	10	9,7	15	12	6	16
2416.W120	12	11,7	18	14	7	27
2416.W140	14	13,7	22	16	8	50
2416.W160	16	15,7	25	18	9	70
2416.W180	18	17,7	28	20	10	95
2416.W200	20	19,7	32	24	12	150
2416.W220	22	21,7	35	28	14	210
2416.W240	24	23,7	40	32	16	300
2416.W280	28	27,7	44	36	18	430
2416.W320	32	31,7	50	40	20	630
2416.W360	36	35,6	54	44	22	800
2416.W420	42	41,6	65	52	26	1400
2416.W480	48	47,6	75	60	30	2100
2416.W540	54	53,6	85	70	34	3150

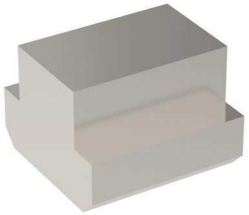
Semi Finished T-Nuts

stainless steel

2418







Material
Stainless steel 1.4305 (AISI 303).

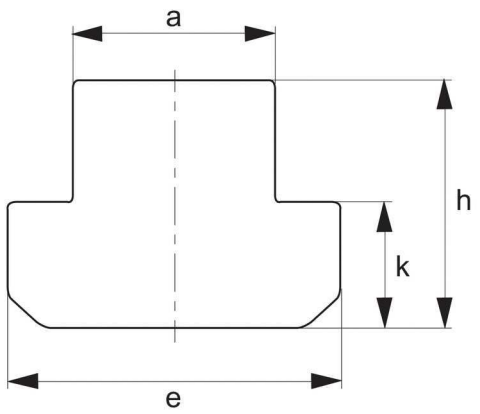
Technical Notes
Please note T-Nuts are square, length and width are both equal to "e".
* = DIN standards do not include these dimensions.

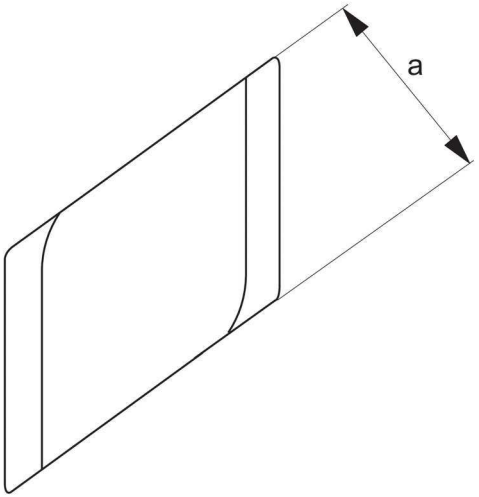
Order No.	T-Slot size	a	e	h	k	g
2418.W080	8	7,6	13	10	6	10
2418.W100	10	9,6	15	12	6	17
2418.W120	12	11,6	18	14	7	27
2418.W140	14	13,6	22	16	8	46
2418.W160	16*	15,6	25	18	9	68
2418.W180	18	17,6	28	20	10	95

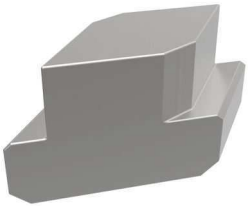
T-Nuts

rhombus semi-finshed

2419







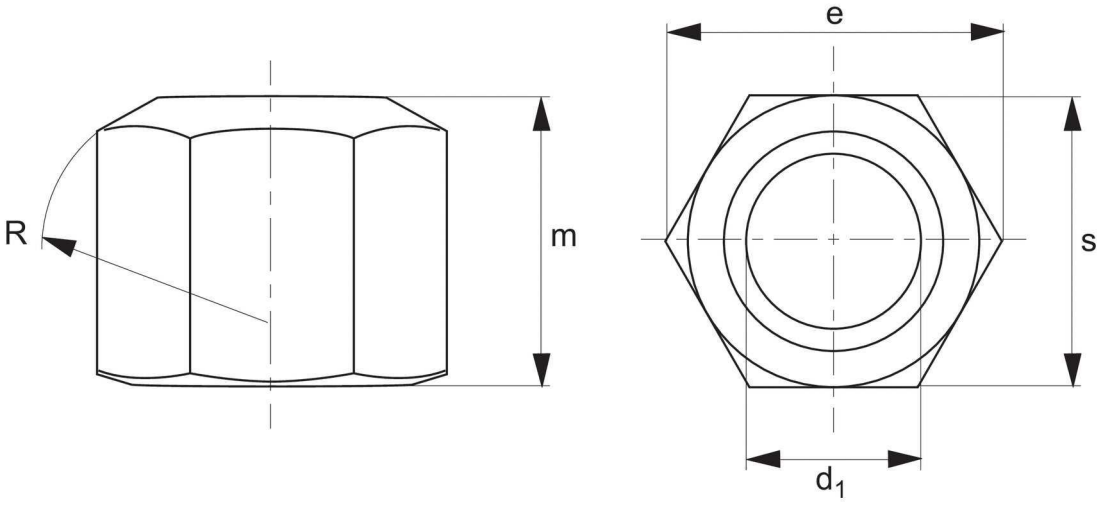
Material
Heat-treated steel, bright

Order No.	T-slot size	a	e	h	k	g
2419.W561	6	5,7	10	8	4	3
2419.W581	8	7,6	13	10	6	7
2419.W601	10	9,6	15	12	6	13
2419.W621	12	11,6	18	14	7	21
2419.W641	14	13,6	22	16	8	35
2419.W661	16	15,6	25	18	9	52
2419.W681	18	17,6	28	20	10	73
2419.W701	20	19,6	32	24	12	110
2419.W721	22	21,6	35	28	14	158
2419.W781	28	27,6	44	36	18	324
2419.W861	36	35,5	54	44	22	635

Fixture Nuts

strength class 10 - DIN 6330B

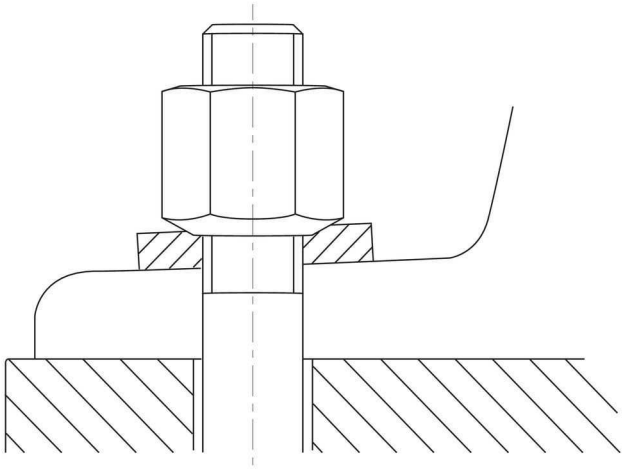
2430



Material
Heat treated steel to tensile strength class 10.

Referral
For swivel nuts to accommodate uneven surfaces see part 2462.

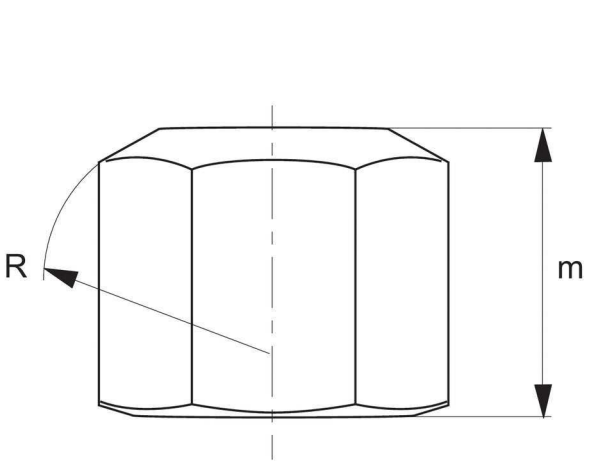
Order No.	d_1	e	m=1,5 x d_1	r	s	g
2430.W106	M 6	11,05	9	9	10	5
2430.W108	M 8	14,40	12	12	13	9
2430.W110	M10	17,80	15	15	16	14
2430.W111	M10	18,90	15	15	17	20
2430.W112	M12	20,03	18	17	18	20
2430.W113	M12	21,10	18	17	19	28
2430.W114	M14	23,40	21	20	21	34
2430.W115	M14	24,50	21	20	22	45
2430.W116	M16	26,80	24	22	24	58
2430.W118	M18	30,10	27	24	27	83
2430.W120	M20	33,50	30	27	30	110
2430.W122	M22	37,70	33	30	34	185
2430.W123	M22	35,70	33	30	32	130
2430.W124	M24	40,00	36	32	36	195
2430.W127	M27	45,60	40	36	41	280
2430.W130	M30	51,30	45	41	46	405
2430.W136	M36	61,30	54	50	55	715
2430.W142	M42	72,60	63	58	65	1170
2430.W148	M48	83,90	72	67	75	1800

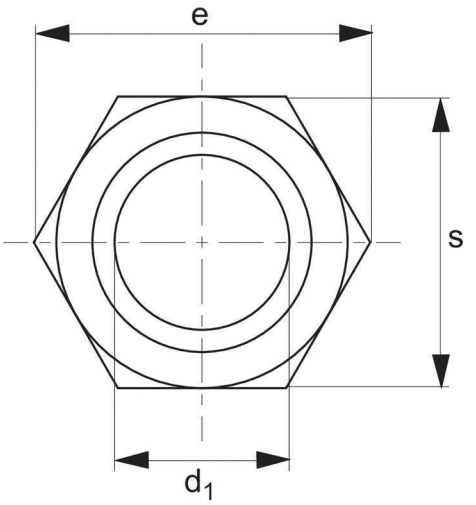


Fixture Nuts

stainless steel - DIN 6330B

2432





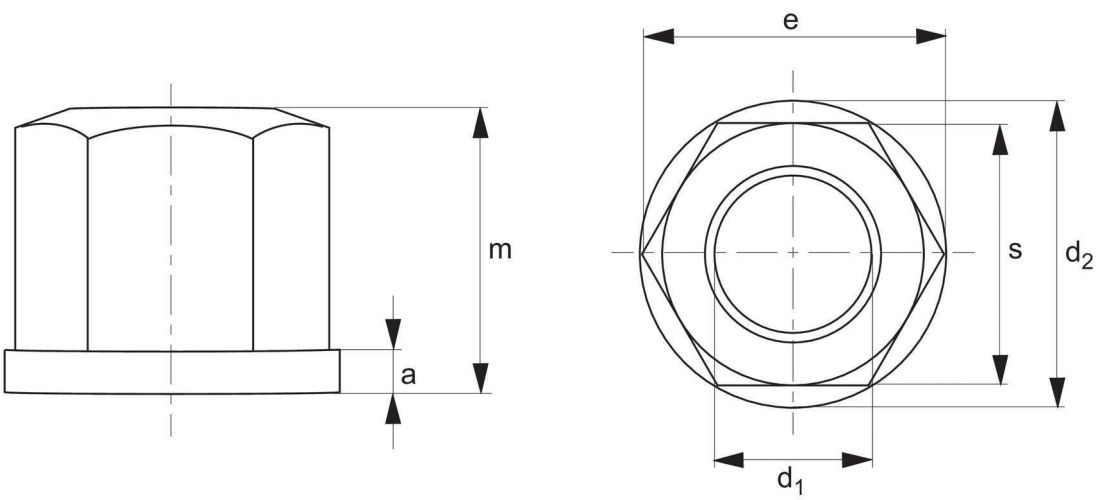
Material
Stainless steel 1.4305 (AISI 303).

Order No.	d_1	e	m	r	s	g
2432.W108	M 8	15,0	12	11	13	8,4
2432.W110	M10	18,5	15	15	16	17
2432.W112	M12	20,8	18	17	18	24
2432.W116	M16	27,7	24	22	24	55
2432.W120	M20	34,6	30	27	30	110

Collar Nuts

DIN 6331

2440



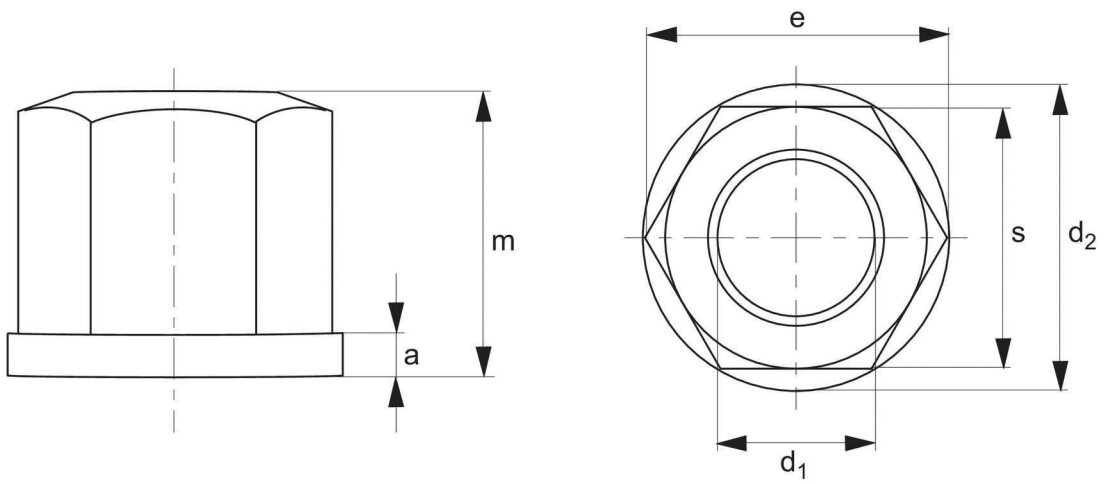
Material
Heat treated steel to tensile strength class 10. Turned and milled.

Order No.	d_1	a	d_2	e	m = 1,5 x d_1	s	g
2440.W106	M 6	3,0	14	11,05	9	10	6
2440.W108	M 8	3,5	18	14,40	12	13	12
2440.W110	M10	4,0	22	17,80	15	16	21
2440.W111	M10	4,0	22	18,90	15	17	25
2440.W112	M12	4,0	25	20,03	18	18	30
2440.W113	M12	4,0	25	21,10	18	19	36
2440.W114	M14	4,5	28	23,40	21	21	43
2440.W115	M14	4,5	28	24,50	21	22	51
2440.W116	M16	5,0	31	26,80	24	24	70
2440.W118	M18	5,0	34	30,10	27	27	95
2440.W120	M20	6,0	37	33,50	30	30	130
2440.W122	M22	6,0	40	37,70	33	34	200
2440.W123	M22	6,0	40	35,70	33	32	160
2440.W124	M24	6,0	45	40,00	36	36	230
2440.W127	M27	8,0	50	45,60	40	41	320
2440.W130	M30	8,0	58	51,30	45	46	470
2440.W136	M36	10,0	68	61,30	54	55	800
2440.W142	M42	12,0	80	72,60	63	65	1340
2440.W148	M48	14,0	92	83,90	72	75	2040

Collar Nuts

stainless steel - DIN 6331

2442



Material
Stainless steel 1.4305 (AISI 303).

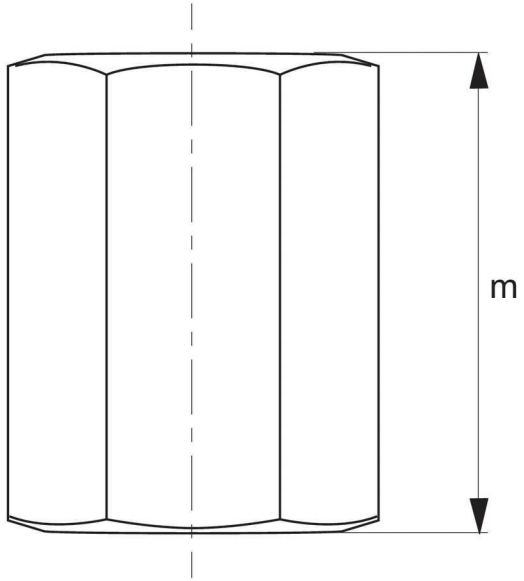
Technical Notes
Please note * = new DIN 's' dimension.

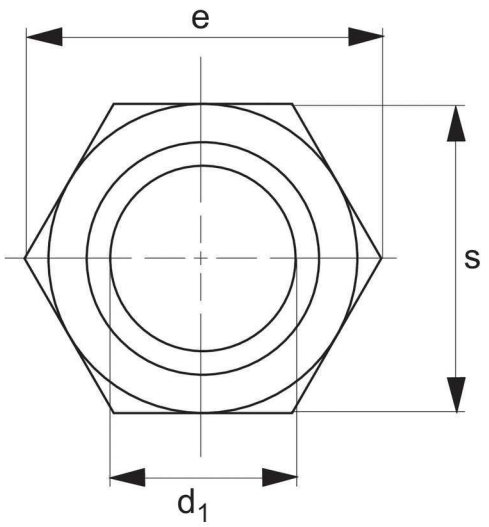
Order No.	d_1	d_2	a	e	m	s	g
2442.W108	M 8	18	3,5	15,0	12	13	12
2442.W110	M10	22	4,0	18,5	15	16*	22
2442.W112	M12	25	4,0	20,8	18	18*	30
2442.W116	M16	31	5,0	27,7	24	24	67
2442.W120	M20	37	6,0	34,6	30	30	129

Extension Nuts

strength class 10

2460





Material
Heat-treated to tensile strength class 10.

Technical Notes
Used for joining T-bolts and studs together. For safety the T-bolts/studs should be screwed half the length of the coupling nut either side. Minimum screwed in thread length should be 1 x diameter.

Order No.	d_1	e	m = 3 x d_1	s	g
2460.W106	M 6	11,5	18	10	8
2460.W108	M 8	15,0	24	13	19
2460.W110	M10	18,4	30	16	30
2460.W111	M10	18,9	25	17	42
2460.W112	M12	20,3	36	18	48
2460.W113	M12	21,10	36	19	64
2460.W114	M14	243,40	42	21	73
2460.W115	M14	24,50	42	22	95
2460.W116	M16	27,7	48	24	120
2460.W118	M18	31,2	54	27	170
2460.W120	M20	34,6	60	30	240
2460.W122	M22	37,70	66	34	390
2460.W123	M22	35,70	66	32	280
2460.W124	M24	41,5	72	36	400
2460.W127	M27	47,3	81	41	600
2460.W130	M30	53,1	90	46	850
2460.W136	M36	63,5	108	55	1470
2460.W142	M42	75,0	126	65	2340
2460.W148	M48	86,5	144	75	3600